







- You will be judged on code cleanliness, not just functionality. Write nice, clean code.
- The implementation should not allow key or value parameters to be null/None.
- It is OK to add a constructor for MyHashtable.
- Don't use the language's built-in HashMap/Hashtable implementation to solve this problem.
- · A test harness is included.
- If get() is called for a key that doesn't exist, it should return null.

## YOUR ANSWER

```
Java 7
 1
 2
 3
    import java.io.*;
 4
    import java.util.*;
 5
 6 ▼public class MyHashtable<K, V> {
        public static void main(String args[]) throws
    Exception {
            new TestHarness(new MyHashtable<String, String>
 8
    ()).run();
 9
10
        public void put(K key, V value) {
11 ▼
            // TODO implement
12
13
        }
14
15 ▼
        public V get(K key) {
```

```
16
            // TODO implement
17
            return null;
18
        }
19
        /**
20 🔻
21
         * A helper class that tests MyHashtable by feeding
    it puts and gets from STDIN.
22
         */
23
        public static class TestHarness implements Runnable {
24
            final MyHashtable<String, String> hashtable;
25
            public TestHarness(MyHashtable<String, String>
26
    hashtable) {
                this.hashtable = hashtable;
27
28
            }
29
30 ▼
            public void run() {
31
                 Scanner scanner = new Scanner(System.in);
                while (scanner.hasNext()) {
32 ▼
33
                     String k = scanner.next();
34
                     String v = null;
35 ₩
                     if (k.contains("=")) {
                         String[] split = k.split("\\=");
36
                         k = split[0];
37
38
                         v = split[1];
39
                     if (v == null) {
40
                         System.out.println(hashtable.get(k));
41
42
                     } else {
43
                         hashtable.put(k, v);
44
                     }
45
                }
46
            }
47
        }
48
    }
49
50
                                                   Line: 48 Col: 1
```

Test against custom input

Run Code

Submit code & Continue



▲ Download sample testcases The input/output files have Unix line endings. Do not use Notepad to edit them on windows.

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